



Tennessee Department of Environment and Conservation
Division of Water Resources
William R. Snodgrass Tennessee Tower, 312 Rosa L. Parks Avenue, 11th Floor, Nashville, Tennessee 37243
1-888-891-8332 (TDEC)

Municipal Separate Storm Sewer System (MS4) Annual Report

1. MS4 INFORMATION

City Of Shelbyville	TNSO75531
Name of MS4	MS4 Permit Number
Mark Clanton	Mark.clanton@shelbyvilletn.org
Name of Contact Person	Email Address

931-684-2644
Telephone (including area code)

201 North Spring Street
Mailing Address

Shelbyville	TN	37160
City	State	ZIP code

What is the current population of your MS4? 20,350+

What is the reporting period for this annual report? From 8/24/2014 to 8/30/2015

2. WATER QUALITY PRIORITIES (SECTION 3.1)

- A. Does your MS4 discharge into waters listed as impaired on TN's most current 303(d) list and/or according to the on-line GIS mapping tool? ☒ Yes ☐ No
- B. If yes, please attach a list all impaired waters within your jurisdictional area.
- C. Does your MS4's jurisdictional area contain any waterbodies where a TMDL has been approved for parameters other than pathogens, siltation and habitat alterations? If yes, please attach a list. ☒ Yes ☐ No
- D. Does your MS4 discharge to any Exceptional TN Waters (ETWs) or Outstanding National Resource Waters (ONRWs)? If yes, please attach a list. ☒ Yes ☐ No
- E. Are you implementing additional specific provisions to ensure the continued integrity of ETWs or ONRWS located within your jurisdiction? ☒ Yes ☐ No

3. PROTECTION OF STATE OR FEDERALLY LISTED SPECIES (SECTION 3.2.1 General Permit for Phase II MS4s)

- A. Are there any state or federally listed species within the MS4's jurisdiction? ☒ Yes ☐ No
- B. Are any of the MS4 discharges or discharge-related activities likely to jeopardize any state or federally listed species? ☐ Yes ☒ No
- C. Please attach any authorizations or determinations by U.S. Fish & Wildlife Service on the effect of the MS4 discharges on state or federally listed species.

4. PUBLIC EDUCATION AND PUBLIC PARTICIPATION (SECTION 4.2.1 AND 4.2.2)

- A. Have you developed a Public Information and Education plan (PIE)? ☒ Yes ☐ No
- B. Is your public education program targeting specific pollutants and sources of those pollutants, such as Hot Spots? ☒ Yes ☐ No

Municipal Separate Storm Sewer System (MS4) Annual Report

C. If yes, what are the specific causes, sources and/or pollutants addressed by your public education program? We educate the children about keeping the storm sewers and ditches clean of debris and pollutants so our water ways and receiving streams will remain a strong, vibrant part of our community. We also educate the children and the community about the dangers of flood waters and the importance of Permanent Stormwater (BMP'S) for water quality.

D. Note specific successful outcome(s) (NOT tasks, events, publications) fully or partially attributable to your public education program during this reporting period. The camp where we taught Stormwater education classes last year has been cleaning ditches on their own and kids have been removing debris from storm sewer grates to help keep our water ways clean. We like to think that educating the children of our community will help this trend build.

E. Do you have an advisory committee or other body comprised of the public and other stakeholders that provides regular input on your stormwater program? ☒ Yes ☐ No

F. How do you facilitate, advertise, and publicize public involvement and participation opportunities? We advertise our program events in the Shelbyville Times Gazette newspaper and on our website at Cityofshelbyvilletn.org/Publicworks/Stormwater. We also use our Shelbyville Public Works facebook page to advertise upcoming stormwater events.

G. Do you have a webpage dedicated to your stormwater program? ☒ Yes ☐ No
If so, what is the link/URL: Cityofshelbyvilletn.org/Publicworks/Stormwater

H. Are you tracking and maintaining records of public education, outreach, involvement and participation activities? Please attach a summary of these activities. ☒ Yes ☐ No

5. ILLICIT DISCHARGE DETECTION AND ELIMINATION (SECTION 4.2.3)

A. Have you completed a map of all outfalls and receiving waters of your storm sewer system? ☒ Yes ☐ No

B. Have you completed a map of all storm drain pipes of storm sewer system? ☒ Yes ☐ No

C. How many outfalls have you identified in your system? 14

D. Have any of these outfalls been screened for dry weather discharges? ☒ Yes ☐ No

F. What is your frequency for screening outfalls for illicit discharges? Outfalls are screened once yearly during dry weather audit and checked by mowing crews on a routine basis as they run their normal routes through the entire city.

G. Do you have an ordinance that effectively prohibits illicit discharges? ☒ Yes ☐ No

H. During this reporting period, how many illicit discharges/illegal connections have you discovered (or been reported to you)? 0

I. Of those illicit discharges/illegal connections that have been discovered or reported, how many have been eliminated? 0

6. CONSTRUCTION SITE STORMWATER RUNOFF (SECTION 4.2.4)

A. Do you have an ordinance or adopted policies stipulating:

Erosion and sediment control requirements? ☒ Yes ☐ No

Other construction waste control requirements? ☒ Yes ☐ No

Requirement to submit construction plans for review? ☒ Yes ☐ No

MS4 enforcement authority? ☒ Yes ☐ No

B. How many active construction sites disturbing at least one acre were there in your jurisdiction this reporting period? 6

Municipal Separate Storm Sewer System (MS4) Annual Report

- C. How many of these active sites did you inspect this reporting period? 6
- D. On average, how many times each, or with what frequency, were these sites inspected (e.g., weekly, monthly, etc.)? Weekly
- E. Do you prioritize certain construction sites for more frequent inspections? ☒ Yes ☐ No
If Yes, based on what criteria? Location of outfalls

7. PERMANENT STORMWATER CONTROLS (SECTION 4.2.5)

- A. Do you have an ordinance or other mechanism to require:
- Site plan reviews of all new and re-development projects? ☒ Yes ☐ No
- Maintenance of stormwater management controls? ☒ Yes ☐ No
- Retrofitting of existing BMPs with green infrastructure BMPs? ☒ Yes ☐ No
- B. What is the threshold for new/redevelopment stormwater plan review? (e.g., all projects, projects disturbing greater than one acre, etc.) All projects go through a full city review process.
- C. Have you implemented and enforced performance standards for permanent stormwater controls? ☒ Yes ☐ No
- D. Do these performance standards go beyond the requirements found in Section 4.2.5.2 and require that pre-development hydrology be met for:
- Flow volumes ☒ Yes ☐ No
- Peak discharge rates ☒ Yes ☐ No
- Discharge frequency ☒ Yes ☐ No
- Flow duration ☒ Yes ☐ No
- E. Please provide the URL/reference where all permanent stormwater management standards can be found.
Cityofshelbyvilletn.org/publicworks/Stormwater Mangement Manual/ section 6.7.5
- F. How many development and redevelopment project plans were reviewed for this reporting period? 15
- G. How many development and redevelopment project plans were approved? 15
- H. How many permanent stormwater management practices/facilities were inspected? 54 private/4 city owned
- I. How many were found to have inadequate maintenance? 0
- J. Of those, how many were notified and remedied within 30 days? (If window is different than 30 days, please specify) 0
- K. How many enforcement actions were taken that address inadequate maintenance? 0
- L. Do you use an electronic tool (e.g., GIS, database, spreadsheet) to track post-construction BMPs, inspections and maintenance? ☒ Yes ☐ No
- M. Do all municipal departments and/or staff (as relevant) have access to this tracking system? ☒ Yes ☐ No
- N. Has the MS4 developed a program to allow for incentive standards for redeveloped sites? ☐ Yes ☒ No
- O. How many maintenance agreements has the MS4 approved during the reporting period? 2

8. CODES AND ORDINANCES REVIEW AND UPDATE (SECTION 4.2.5.3)

Municipal Separate Storm Sewer System (MS4) Annual Report

- A. Is a completed copy of the EPA Water Quality Scorecard submitted with this report? ☒ Yes ☐ No
- B. Include status of implementation of code, ordinance and/or policy revisions associated with permanent stormwater management. We updated our Stormwater Regulations to Meet the TDEC standards and adopted the 1" Caputure Regulation into our Stormwater Mangement Manual on 1/21/2014.

9. STORMWATER MANAGEMENT FOR MUNICIPAL OPERATIONS (SECTION 4.2.6)

- A. Have stormwater pollution prevention plans (or an equivalent plan) been developed for:
- | | | |
|---|---|-----------------------------|
| All parks, ball fields and other recreational facilities | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No |
| All municipal turf grass/landscape management activities | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No |
| All municipal vehicle fueling, operation and maintenance activities | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No |
| All municipal maintenance yards | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No |
| All municipal waste handling and disposal areas | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No |
- B. Are stormwater inspections conducted at these facilities? ☒ Yes ☐ No
1. If Yes, at what frequency are inspections conducted? Inspections are made yearly and relevant staff inspections during regular maintenance activities
- C. Have standard operating procedures or BMPs been developed for all MS4 field activities? (e.g., road repairs, catch basin cleaning, landscape management, etc.) ☒ Yes ☐ No
- D. Do you have a prioritization system for storm sewer system and permanent BMP inspections? ☒ Yes ☐ No
- E. On average, how frequently are catch basins and other inline treatment systems inspected? Monthly
- F. On average, how frequently are catch basins and other inline treatment systems cleaned out/maintained? They are cleaned out before and after major storms and on a routine monthly sweeping and cleaning schedule.
- G. Do municipal employees in all relevant positions and departments receive comprehensive training on stormwater management? ☒ Yes ☐ No
- H. If yes, do you also provide regular updates and refreshers? ☒ Yes ☐ No
- If so, how frequently and/or under what circumstances? We hold yearly meetings to review our Pollution Prevention Plan/Good Housekeeping plan.

10. STORMWATER MANAGEMENT PROGRAM UPDATE (SECTION 4.4)

- A. Describe any changes to the MS4 program during the reporting period including but not limited to:
- Changes adding (but not subtracting or replacing) components, controls or other requirements (Section 4.4.2.a). None at this present time.
- Changes to replace an ineffective or unfeasible BMP (Section 4.4.2.b). None
- Information (e.g. additional acreage, outfalls, BMPs) on program area expansion based on annexation or newly urbanized areas. No expansion this year.
- Changes to the program as required by the division (Section 4.4.3). No changes.

11. EVALUATING/MEASURING PROGRESS

Municipal Separate Storm Sewer System (MS4) Annual Report

- A. What indicators do you use to evaluate the overall effectiveness of your Stormwater Management Program, how long have you been tracking them, and at what frequency? Note that these are not measurable goals for individual BMPs or tasks, but large-scale or long-term metrics for the overall program, such as in-stream macroinvertebrate community indices, measures of effective impervious cover in the watershed, indicators of in-stream hydrologic stability, etc.

Indicator	Began Tracking (year)	Frequency	Number of Locations
<i>Example: E. coli</i>	<i>2003</i>	<i>Weekly April–September</i>	<i>20</i>

- B. Provide a summary of data (e.g., water quality information, performance data, modeling) collected in order to evaluate the performance of permanent stormwater controls installed throughout the system. This evaluation may include a comparison of current and past permanent stormwater control practices. _____

12. ENFORCEMENT (SECTION 4.5)

- A. Identify which of the following types of enforcement actions you used during the reporting period, indicate the number of actions, the minimum measure (e.g., construction, illicit discharge, permanent stormwater control) or note those for which you do not have authority:

Action	Construction	Permanent Stormwater Controls	Illicit Discharge	Authority?	
Notice of violation	# <u>0</u>	# <u>0</u>	# <u>0</u>	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Administrative fines	# <u>0</u>	# <u>0</u>	# <u>0</u>	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Stop Work Orders	# <u>0</u>	# <u>0</u>	# <u>0</u>	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Civil penalties	# <u>0</u>	# <u>0</u>	# <u>0</u>	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Criminal actions	# <u>0</u>	# <u>0</u>	# <u>0</u>	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Administrative orders	# <u>0</u>	# <u>0</u>	# <u>0</u>	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Other _____	# <u>0</u>	# <u>0</u>	# <u>0</u>		

- B. Do you use an electronic tool (e.g., GIS, data base, spreadsheet) to track the locations, inspection results, and enforcement actions in your jurisdiction? ☒ Yes ☐ No

- C. What are the 3 most common types of violations documented during this reporting period? Maintenance issues, Tracking of Sediment off site, Not posting of permits.

13. PROGRAM RESOURCES (OPTIONAL)

- A. What was your annual expenditure to implement the requirements of your MS4 NPDES permit and SWMP this past reporting period? \$120,000
- B. What is next year's budget for implementing the requirements of your MS4 NPDES permit and SWMP? \$120,000
- C. Do you have an independent financing mechanism for your stormwater program? ☐ Yes ☒ No
- D. If so, what is it/are they (e.g., stormwater fees), and what is the annual revenue derived from this mechanism?

Source:

Amount \$

Municipal Separate Storm Sewer System (MS4) Annual Report

Source:

Amount \$

E. How many full time employees does your municipality devote to the stormwater program (specifically for implementing the stormwater program vs. municipal employees with other primary responsibilities that dovetail with stormwater issues)? 1

F. Do you share program implementation responsibilities with any other entities? ☐ Yes ☐ No

Entity	Activity/Task/Responsibility	Your Oversight/Accountability Mechanism
Planning and Codes	Site plan review	Provide comments to planning commissioners
City Engineer	MS4 Compliance	Review plans for MS4 Compliance

G. Please attach a copy of your Organizational Chart

14. CERTIFICATION

This report must be signed by a ranking elected official or by a duly authorized representative of that person. See signatory requirements in sub-part 6.7.2 of the permit.

"I certify under penalty of law that this document and all attachments were prepared by me, or under my direction or supervision. The submitted information is to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. As specified in Tennessee Code Annotated Section 39-16-702(a)(4), this declaration is made under penalty of perjury."

James R Johnson
Printed Name and Title

James R Johnson
Signature

9-9-15
Date

Annual reports must be submitted in accordance with the requirements of Section 5.4. (Reporting) of the permit. Annual reports must be submitted to the appropriate Environmental Field Office (EFO) by September 30 of each calendar year, as shown in the table below:

EFO	Street Address	City	Zip Code	Telephone
Chattanooga	540 McCallie Avenue STE 550	Chattanooga	37402	(423) 634-5745
Columbia	1421 Hampshire Pike	Columbia	38401	(931) 380-3371
Cookeville	1221 South Willow Ave.	Cookeville	38506	(931) 432-4015
Jackson	1625 Hollywood Drive	Jackson	38305	(731) 512-1300
Johnson City	2305 Silverdale Road	Johnson City	37601	(423) 854-5400
Knoxville	3711 Middlebrook Pike	Knoxville	37921	(865) 594-6035
Memphis	8383 Wolf Lake Drive	Bartlett	38133	(901) 371-3000
Nashville	711 R S Gass Boulevard	Nashville	37216	(615) 687-7000



Mark A. Clanton, Director
Email: mark.clanton@shelbyvilletn.org

City of Shelbyville

Public Works Department

714 Industrial Parkway Shelbyville, TN 37160
Phone 931.684.2644 Fax 931.684.8993

The City of Shelbyville's Public Works construction crew has done many drainage projects this permit year including regrading and matting many ditches throughout the city. We have been fixing our main ditch erosion problems and working our way down the list and fixing drainage structures to help with our city's water quality. Our main focus has been cleaning culverts and catch basins of waste and fixing our city's drainage infrastructure to keep all Stormwater flowing at its maximum capacity as clean as possible before it makes it to the Duck River.

Eric Pierce

Stormwater Coordinator

Shelbyville, TN.



Mark A. Clanton, Director
Email: mark.clanton@shelbyvilletn.org

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11a. Evaluating/Measuring Progress

We have been keeping track of the debris picked up by our street sweeper and our maintenance crews that clean the catch basins and storm drain outfalls on a routine basis. We can measure the overall effectiveness of our program in certain areas and also City wide. This is a good way of tracking progress and seeing what areas of the program need more attention given.

Annual cleanup day nears for Duck River

Wednesday, June 3, 2015

By JASON REYNOLDS ~ jreynolds@t-g.com

The 18th annual effort to clean up the Duck River will take place Saturday, June 27.

The Duck River Cleanup starting point is at River Bottom Park behind Shelbyville Power, Water and Sewerage System. Registration is at 7 a.m. Volunteers will get their assignments and locations, and should report to registration even if they are using a boat for the cleanup, co-organizer Wayne Bomar said.

Food and bags

The registration tent will have coffee, doughnuts and biscuits. Volunteers will pick up their litter bags and free T-shirts there as well.

Lunch will be served from 11 a.m.-noon at the registration area.

Co-sponsored by the Shelbyville Bedford County Chamber of Commerce Beautification Committee, Rotary Club and the Duck River Development Agency, the Duck River Cleanup builds awareness for the importance of the river's water quality, and the river's scenic appeal.

Diverse river

The Nature Conservancy's "Rivers of Life" lists the Duck River as the No. 2 aquatic hot spot in the nation, with 33 at-risk fish and mussel species. The river is considered the most biologically diverse river in North America, with 54 species of freshwater mussels, 24 species of riversnails and 151 fish species.

This is part of a regional cleanup of the Duck River, co-organizer Dawn Holley said.

For more information, call 684-3482 or 684-1693 or go to <http://www.facebook.com/duckriverclean>.

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Story URL: <http://www.t-g.com/story/2201324.html>



Mark A. Clanton, Director
Email: mark.clanton@shelbyvilletn.org

City of Shelbyville Public Works Department

714 Industrial Parkway Shelbyville, TN 37160
Phone 931.684.2644 Fax 931.684.8993

Long Term Maintenance Plan (LTMP) and Agreement

For:

Project Name, Phase, and Location

City of Shelbyville
Bedford County, Tennessee

Date

Prepared by/Contact Info



Mark A. Clanton, Director
Email: mark.clanton@shelbyvilletn.org

City of Shelbyville

Public Works Department

714 Industrial Parkway Shelbyville, TN 37160
Phone 931.684.2644 Fax 931.684.8993

Site Information

1) Project Information

Project Name: _____

Section/Phase: _____

Location: _____

Tax Map/Parcel# _____

2) Owners Contact Information Responsible for Maintenance

Name: _____

Phone Number: _____

Address: _____

Name: _____

Phone Number: _____

Address: _____

*Annual Inspection reports are to be submitted by the owner to the City of Shelbyville Public Works Engineering Dept. no later than July 1st of each year.

3) Stormwater System Features Located Onsite (check features)

___ Urban Bioretention/Rain Gardens

___ Infiltration Trenches

___ Dry Ponds

___ Water Quality Swales

___ Grass Swales

___ Wet Ponds

___ Oil Grit Separator/Water Quality Unit

___ Riparian Buffers

___ Wetland

___ Permeable Pavers/Concrete

___ Green Roof

___ Storm Sewer



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Public Works Department

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Phone 931.684.2644 Fax 931.684.8993

- 4) Check that all the following documents have been attached and included with this submittal form.

___ Location Map

___ Stormwater Features Location Sheet (Description and locations of stormwater systems to be inspected; include detailed exhibits of the BMP's and a site map showing the location of all BMP's and stream buffers)

___ Oil Grit Separator/Water Quality Unit 2 year maintenance agreement

___ BMP inspection and maintenance form for each MBP located on site

- 5) **As-builts**

Upon Completion of the site construction, as -built drawings of the stormwater controls will be provided to the City of Shelbyville Public Works Department for verification.

- 6) **Maintenance Agreement**

A copy of the inspection and Maintenance Agreement of Private Stormwater Management Facilities that has been completed, notarized and recorded with the City of Shelbyville, Tennessee will be kept with the document.

- 7) **Access**

As agreed to with the Inspection and Maintenance Agreement, the owner shall grant to the City of Shelbyville or its agent or contractor the right of entry at reasonable times and in a reasonable manner for the purpose of inspecting, operation, installing, constructing, reconstructing, maintain or repairing the facility.

- 8) **Waste disposal**

Trash and debris collected from the stormwater sewer system shall be properly disposed with a licensed sanitation company. All sediment and debris shall be disposed at a licensed landfill in accordance with all local, state, and federal laws. If any sediment is believed to be contaminate, the Tennessee Department of Environment and Conservation (TDEC)-Division of Water Pollution Control should be contacted at 931-380-3371.

- 9) **Certification**

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Signed _____ Printed: _____



Mark A. Clanton, Director
Email: mark.clanton@shelbyvilletn.org

City of Shelbyville

Public Works Department

714 Industrial Parkway Shelbyville, TN 37160
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Date _____

APPENDIX C: Federally Listed Endangered Aquatic Species in the State of Tennessee

Scientific Name	Common Name	Status	Total Obs.	Pre-1975 obs.	Post-1975 obs.	HUC location of endangered species post-1975	Extirpated since 11/1975	When Listed	Federal Register Citation
Fish									
<i>Cyprinella caerulea</i>	Blue shiner	T	9	1 obs. 1974	8 obs. 1982-2000	03150101	No	462	57 FR 14790; April 22, 1992
<i>Cyprinella monacha</i>	Spotfin chub	T	38	17 obs. 1936-08/1975	21 obs. 1977-2000	06010208 06010204 06010104 06010101 06010205 06010206 06040004	No	28	42 FR 45528; Sept. 9, 1977
<i>Erimystax cahni</i>	Slender chub	T	15	5 obs. 1941-1974	10 obs. 1979-1993	06010205 06010206 05130108	No	28	42 FR 45528; Sept. 9, 1977
<i>Etheostoma boschungii</i>	Slackwater darter	T	15	5 obs. 1971-1974	10 obs. 1976-1994	06040004 06030005 06030002	No	28	42 FR 45528; Sept. 9, 1977
<i>Etheostoma percnurum</i>	Duskytail darter	E	11	1 obs. 1947	10 obs. 1992-2000	06010201 05130104 06010201 06010204	No	502	58 FR 25763; April 27, 1993
<i>Etheostoma wapiti</i>	Boulder darter	E	11	0	11 obs. 1983-2001	06030004 06030003	No	322	53 FR 33998; Sept. 1, 1988
<i>Notropis albizonatus</i>	Palezone shiner	E	2	1 obs. 1936	1 obs. 1978	06010205	Yes*	502	58 FR 25763; April 27, 1993
<i>Noturus baileyi</i>	Smoky madtom	E	16	1 obs. 1957	15 obs. 1981-1995	06010204	No	163	49 FR 43069; Oct. 26, 1984
<i>Noturus flavipinnis</i>	Yellowfin madtom	T	11	5 obs. 1884-1970	6 obs. 1981-1998	06010206 06010204 06010207	No	28 Or 317	42 FR 45528; Sept. 9, 1977 Or 53 FR 29337; Aug. 4, 1988
<i>Noturus stanauli</i>	Pygmy madtom	E	5	1 obs. 1974	4 obs. 1978-1996	06040003 06010205	No	502	58 FR 25763; April 27, 1993
<i>Percina antesella</i>	Amber darter	E	6	3 obs. 1969-1973	3 obs. 1976-1978	05130101	No	196	50 FR 31603; Aug. 5, 1985
<i>Percina jenkinsi</i>	Conasauga logperch	E	7	3 obs. 1969	4 obs. 1985-2001	03150101	No	196	50 FR 31603; Aug. 5, 1985

<i>Percina tanasi</i>	Snail darter	T	47	3 obs. 1974- 09/1975	44 obs. 1976-2000	06010201 06020001 06020002 06010204 06020004 06030004 06010104 06010108 06010107 06010201 06020003	No	12 Or 150	40 FR 47506; Oct. 9, 1975 Or 49 FR 27514; July 5, 1984
<i>Phoxinus cumberlandensis</i>	Blackside dace	T	26	0	26 obs. 1985-2000	05130101	No	273	52 FR 22585; June 12, 1987
<i>Scaphirhynchus albus</i>	Pallid sturgeon	E	3	0	3 obs. 1990	08010100	No	399	55 FR 36647; Sept. 6, 1990
Crustaceans									
<i>Orconectes shoupi</i>	Nashville crayfish	E	57	0	57 obs 1981-2000	5130202	No	242	51 FR 34412; Sept. 26, 1986
Mollusca									
<i>Alasmidonta atropurpurea</i>	Cumberland elktoe	E	19	0	19 obs. 1978-2000	05130104 05130107	No	602	62 FR 1657; Jan. 10, 1997
<i>Alasmidonta raveneliana</i>	Appalachian elktoe	E	1	0	1 obs. 1992	06010108	Yes*	563	59 FR 60334; Nov. 23, 1994
<i>Cyprogenia stegaria (irrorata)</i>	Eastern fanshell pearlymussel	E	30	4 obs 1936-1974	26 obs 1978-1999	05130108 06010205 06020001 06040001	No	391	55 FR 25595; June 21, 1990
<i>Dromus dromas</i>	Dromedary pearlymussel	E	71	32 obs 1899-1964	39 obs 1975-1999	05130108 05130201 06010205 06010206 06020001	No	15	41 FR 24064; June 14, 1976

<i>Epioblasma brevidens</i>	Cumberlandian combshell	E	46	0	46 obs 1975-2000	05130104 05130108 05130201 05130202 06010205 06010206 06040002 06040003	No	602	62 FR 1657; Jan. 10, 1997
<i>Epioblasma capsaeformis</i>	Oyster mussel	E	38	0	38 obs 1979-2000	05130108 06010205 06010206 06040002	No	602	62 FR 1657; Jan. 10, 1997
<i>Epioblasma florentina florentina</i>	Yellow-blossom pearlymussel	E	25	23 obs 1913-1973	2 obs 1979-1981	05130201	Yes*	15	41 FR 24064; June 14, 1976
<i>Epioblasma metastrata</i>	Upland combshell	E	1	1 obs pre-1974	0	03150101	Yes*	495	58 FR 14339; March 17, 1993
<i>Epioblasma obliquata obliquata</i>	Purple cat's paw pearlymussel	E	2	0	2 obs 1979-1982	05130201	No	394	55 FR 28213; July 10, 1990
<i>Epioblasma torulosa gubernaculum</i>	Green-blossom pearlymussel	E	13	11 obs 1913-1935	2 obs 1975-1979	06010205 06010206	Yes*	15	41 FR 24064; June 14, 1976
<i>Epioblasma torulosa torulosa</i>	Tubercled-blossom pearlymussel	E	8	6 obs 1919-1965	2 obs 1981	05130201	Yes*	15	41 FR 24064; June 14, 1976
<i>Epioblasma turgidula</i>	Turgid-blossom pearlymussel	E	17	16 obs pre-1886- 1972	1 obs 1979	06040003	Yes*	15	41 FR 24064; June 14, 1976
<i>Fusconaia cor (edgariana)</i>	Shiny pigtoe	E	56	16 obs 1913-1967	40 obs 1975-1998	06010205 06010206 06030003	No	15	41 FR 24064; June 14, 1976
<i>Fusconaia cuneolus</i>	Fine-rayed pigtoe	E	49	21 obs 1899-1973	28 obs 1978-1998	06010101 06010201 06010205 06010206 06030003	No	15	41 FR 24064; June 14, 1976
<i>Hemistena lata</i>	Cracking pearlymussel	E	33	9 obs 1914-1970	24 obs 1975-1999	06010205 06010206 06030003 06040001	No	36	43 FR 12691; March 27, 1978

<i>Lampsilis abrupta</i>	Pink mucket pearlymussel	E	81	12 obs 1920-1973	69 obs 1975-2001	05130108 05130201 06010104 06010107 06010201 06010205 06010207 06020001 06040001 06030001 06040005	No	15	41 FR 24064; June 14, 1976
<i>Lampsilis virescens</i>	Alabama lampmussel	E	6	5 obs 1915-1974	1 obs 1995	06030002	Yes*	15	41 FR 24064; June 14, 1976
<i>Medionidus parvulus</i>	Coosa moccasinshell	E	8	1 obs 1973	7 obs 1997-1999	03150101	No	495	58 FR 14339; March 17, 1993
<i>Obovata retusa</i>	Ring pink mussel	E	14	7 obs 1924-1964	7 obs 1978-1999	05130201 06040001	No	369	54 FR 40112; Sept. 29, 1989
<i>Pegias fabula</i>	Little-wing pearlymussel	E	11	5 obs 1914-1966	6 obs 1981-2000	05130104 05130107 05130108	No	342	53 FR 45865; Nov. 14, 1988
<i>Plethobasus cicatricosus</i>	White wartyback pearlymussel	E	11	4 obs 1956-1964	7 obs 1978-1987	05130201 06040001	No	15	41 FR 24064; June 14, 1976
<i>Plethobasus cooperianus</i>	Orange-foot pimpleback pearlymussel	E	41	19 obs 1895-1970	22 obs 1978-1999	05130201 06010201 06010206 06020001 06040001	No	15	41 FR 24064; June 14, 1976
<i>Pleurobema clava</i>	Clubshell	E	3	0	3 obs 1978-1992	5130108 06040001	No	488	58 FR 5642; Jan. 22, 1993
<i>Pleurobema georgianum</i>	Southern pigtoe	E	11	1 obs pre-1975	10 obs 1995-1997	03150101	No	495	58 FR 14339; March 17, 1993
<i>Pleurobema gibberum</i>	Cumberland pigtoe	E	13	0	13 obs 1976-1998	05130107 05130108 06030003	No	423	56 FR 21087; May 7, 1991
<i>Pleurobema plenum</i>	Rough pigtoe	E	17	3 obs 1920-1964	14 obs 1979-1998	05130201 06010205 06020001 06040001	No	15	41 FR 24064; June 14, 1976
<i>Ptychobranchius greeni</i>	Triangular kidneyshell	E	2	0	2 obs 1980-1995	03150101	Yes*	495	58 FR 14339; March 17, 1993
<i>Quadrula cylindrica strigillata</i>	Rough rabbitfoot	E	24	1 obs 1960	23 obs 1975-1999	06010205 06010206	No	602	62 FR 1657; Jan. 10, 1997
<i>Quadrula intermedia</i>	Cumberland monkeyface pearlymussel	E	45	15 obs 1900-1973	30 obs 1975-2001	06010206 06030003 06040002	No	15	41 FR 24064; June 14, 1976

<i>Quadrula sparsa</i>	Appalachian monkeyface pearl mussel	E	11	2 obs 1958-1964	9 obs 1976-1998	05130201 06010206	No	15	41 FR 24064; June 14, 1976
<i>Toxolasma cylindrellus</i>	Pale lilliput pearl mussel	E	13	10 obs 1886-1970	3 obs 1982-1995	06030002 06040002 06040003	Yes*	15	41 FR 24064; June 14, 1976
<i>Villosa perpurpurea</i>	Purple bean	E	10	3 obs 1913-1970	7 obs 1985-2000	06010104 06010208	No	602	62 FR 1657; Jan. 10, 1997
<i>Villosa trabalis</i>	Cumberland bean pearl mussel	E	17	4 obs 1913-1939	13 obs 1980-2000	05130104 05130108 06010104 06010208 06020002	No	15	41 FR 24064; June 14, 1976
Snails									
<i>Atheamnia anthonyi</i>	Anthony's River Snail	E	14	6 obs 1941-1965	8 obs 1975-1994	06010201 06010205 06020004 06030001	No	538	59 FR 17998; April 15, 1994
<i>Pyrgulopsis (Marstonia) ogmorhaphe</i>	Royal marstonia (Obese snail)	E	4	0	4 obs 1997	03150101	No	538	59 FR 17998; April 15, 1994

*Note: None of the extirpated species have been found on segments listed as partially or non-supporting on the 2002 303(d) List.
See the 2002 303 (d) List for endangered species located on partially or not-supporting waterbody segments.

Status:

E = Endangered

T = Threatened

Waterbody ID	Impacted Waterbody	County	Miles/Acres Impaired	CAUSE / TMDL Priority	Pollutant Source	COMMENTS
TN06040002 012 - 2000	BIG ROCK CREEK	Marshall	9.0	Nitrate+Nitrite Total Phosphorus Loss of biological integrity due to siltation Low dissolved oxygen M M NA L	Municipal Point Source Discharges from MS4 area	Lewisburg area impacts. Category 5. EPA approved a siltation TMDL that addresses some of the known pollutants.
TN06040002 012 - 3000	BIG ROCK CREEK	Marshall	6.0	Loss of biological integrity due to siltation Physical Substrate Habitat Alterations Low Dissolved Oxygen Escherichia coli NA NA L H	Pasture Grazing	Category 5. EPA approved a habitat/siltation TMDL that addresses some of the known pollutants.
TN06040002 020 - 1000	DUCK RIVER	Bedford	29.8	Escherichia coli H	Discharges from MS4 area	Shelbyville area pathogen sources. Stream is Category 5. (One or more uses impaired.)
TN06040002 021 - 0100	LITTLE SINKING CREEK	Bedford	7.6	Loss of biological integrity due to siltation Alteration in stream-side or littoral vegetative cover NA NA	Pasture Grazing	Category 4a. EPA approved siltation and pathogen TMDLs that address the known pollutants.
TN06040002 021 - 1000	SINKING CREEK	Bedford	12.0	Loss of biological integrity due to siltation Alteration in stream-side or littoral vegetative cover NA NA	Pasture Grazing	Category 4a. EPA approved pathogen and siltation TMDLs that address the known pollutants.
TN06040002 024 - 0100	DAVIS BRANCH	Bedford	2.2	Loss of biological integrity due to siltation NA	Pasture Grazing	Category 4a. EPA approved a siltation TMDL that addresses the known pollutant.
TN06040002 024 - 1000	SUGAR CREEK	Bedford	21.7	Nitrate+Nitrite Total Phosphorus Alteration in stream-side or littoral vegetative cover Escherichia coli M M NA H	Pasture Grazing	Category 5. EPA approved a siltation/habitat alteration TMDL that addresses some of the known pollutants.
TN06040002 027 - 0200	BOMAR CREEK	Bedford	4.1	Nutrients Low dissolved oxygen M L	Discharges from MS4 Area	Shelbyville area impacts. Category 5. (One or more uses impaired.)
TN06040002 027 - 1000	DUCK RIVER	Bedford	1.6	Escherichia coli Loss of biological integrity due to siltation NA NA	Collection System Failure Discharges from MS4 area	Shelbyville area impacts. Category 4a. EPA approved siltation and pathogen TMDLs that addresses the known pollutants.
TN06040002 030 - 0200	DODDY CREEK	Bedford	2.2	Habitat loss due to flow alteration NA	Upstream Impoundment	Category 4c. Impacts are not caused by a pollutant.
TN06040002 030 - 1000	DUCK RIVER	Bedford	12.1	Thermal Modification Flow Alteration Manganese L NA L	Upstream Impoundment	Category 5, flow alteration is 4c (impact not due to pollutant).


Draft Version 2014 303(d) LIST (Duck River Watershed cont.)

Waterbody ID	Impacted Waterbody	County	Miles/Acres Impaired	CAUSE / TMDL Priority	Pollutant Source	COMMENTS
TN06040002 032 - 0300	CLEAR BRANCH	Coffee	7.3	Alteration of stream-side or littoral vegetation Total Phosphorus Low dissolved oxygen Escherichia coli	Dairies Pasture Grazing	Category 5. EPA approved DO, nutrient, and pathogen TMDLs for this stream that address some of the known pollutants.
TN06040002 032 - 0310	MUDDY BRANCH	Coffee	5.1	Alteration of stream-side or littoral vegetation Total Phosphorus Low dissolved oxygen Escherichia coli	Dairies Pasture Grazing	Category 5. EPA approved DO, nutrient, and pathogen TMDLs for this stream that address some of the known pollutants.
TN06040002 032 - 2000	DUCK RIVER	Coffee	1.25	Escherichia coli	Collection System Failure	Water contact advisory due to elevated bacteria levels from Manchester area sewer overflows and urban runoff. Category 4a. EPA approved a pathogen TMDL that addresses the known pollutant.
TN06040002 033 - 0300	BELL BUCKLE CREEK	Bedford	11.1	Low Dissolved Oxygen Loss of biological integrity due to siltation Physical Substrate Habitat Alterations Escherichia coli	Municipal Point Source Unrestricted Cattle Access	Bell Buckle area impacts, incl. Bell Buckle STP. Category 5. EPA approved siltation/habitat alteration and pathogen TMDLs that address some of the known pollutants.
TN06040002 033 - 0600	MUSE CREEK	Bedford	3.0	Loss of biological integrity due to siltation Alterations in stream-side or littoral vegetative cover	Unrestricted Cattle Access	Category 4a. EPA approved a siltation/habitat alteration TMDL that addresses some of the known pollutants.
TN06040002 033 - 1000	WARTRACE CREEK	Bedford	15.0	Escherichia coli	Pasture Grazing	Category 5. TMDLs needed.
TN06040002 038 - 0300	HURRICANE CREEK	Bedford	22.03	Escherichia coli Loss of biological integrity due to siltation Physical Substrate Habitat Alterations	Pasture Grazing	Category 4a. EPA approved siltation/habitat alteration and pathogen TMDLs that address the known pollutants.
TN06040002 038 - 1000	FALL CREEK	Bedford	11.4	Escherichia coli	Pasture Grazing	Category 4a. EPA approved a pathogen TMDL that addresses the known pollutant.
TN06040002 039 - 0200	WEAKLEY CREEK	Bedford	6.2	Escherichia coli	Pasture Grazing	Category 4a. EPA approved a pathogen TMDL that addresses the known pollutant.


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Waterbody ID	Impacted Waterbody	County	Miles/Acres Impaired	CAUSE / TMDL Priority	Pollutant Source	COMMENTS
TN06040002 039 - 0250	WEAKLEY CREEK	Bedford Rutherford	13.1	Loss of biological integrity due to siltation Nutrients Escherichia coli NA NA NA	Pasture Grazing	Category 4a. EPA approved siltation, nutrient, and pathogen TMDLs that address the known pollutants.
TN06040002 039 - 0300	ALEXANDER CREEK	Bedford Rutherford	21.1	Loss of biological integrity due to siltation Escherichia coli NA NA	Pasture Grazing	Category 4a. EPA approved siltation and pathogen TMDLs that address the known pollutants.
TN06040002 039 - 1000	NORTH FORK CREEK	Bedford	3.7	Escherichia coli H	Pasture Grazing	Category 5. TMDLs needed.
TN06040002 039 - 2000	NORTH FORK CREEK	Bedford	4.0	Escherichia coli Nutrients H NA	Pasture Grazing	Category 5. EPA approved a nutrient TMDL that addresses some of the known pollutants.
TN06040002 039 - 3000	NORTH FORK CREEK	Bedford	9.2	Loss of biological integrity due to siltation Nutrients Escherichia coli NA NA NA	Pasture Grazing	Category 4a. EPA approved siltation, pathogen, and nutrient TMDLs that address the known pollutants.
TN06040002 046 - 1000	WILSON CREEK	Marshall Bedford	19.5	Escherichia coli Nitrate+Nitrite Physical Substrate Habitat Alterations NA NA NA	Pasture Grazing	Category 4a. EPA approved habitat alteration, nutrient, and pathogen TMDLs that address the known pollutants.
TN06040002 047 - 0100	WEST FORK SPRING CREEK	Marshall Williamson	3.5	Alterations in stream-side or littoral vegetative cover Loss of biological integrity due to siltation L L	Pasture Grazing	Stream is Category 5. One or more uses are impaired.
TN06040002 047 - 0200	EAST FORK SPRING CREEK	Marshall Rutherford	3.1	Alterations in stream-side or littoral vegetative cover L	Pasture Grazing	Stream is Category 5. One or more uses are impaired.
TN06040002 047 - 0300	LICK CREEK	Marshall Rutherford	8.8	Escherichia coli NA	Unrestricted Cattle Access	Category 4a. EPA approved a pathogen TMDL that addresses the known pollutant.
TN06040002 047 - 1000	SPRING CREEK	Marshall Rutherford	13.2	Escherichia coli NA	Unrestricted Cattle Access	Category 4a. EPA approved a pathogen TMDL that addresses the known pollutant.
TN06040002 049 - 0400	WALLACE BRANCH	Maury Williamson	3.8	Escherichia coli NA	Pasture Grazing	Category 4a. EPA approved a pathogen TMDL that addresses the known pollutant.
TN06040002 502 - 0220	SHANKLIN BRANCH	Coffee	4.87	Alteration to stream-side or littoral vegetative cover Loss of biological integrity due to siltation L L	Pasture Grazing	Stream is Category 5. One or more uses are impaired.

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Department of Environment & Conservation
Robert Martin, Commissioner


GOVERNOR Bill Haslam
Visit Bill's Web Site

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Introduction to Exceptional Waters and ORNW in Tennessee

The Known Exceptional Tennessee Waters and Outstanding National Resource Waters

Tennessee water quality standards require the incorporation of the antidegradation policy into regulatory decisions (Chapter 1200-4-3-.06). Part of policy places on the Division of Water Pollution Control is identification of exceptional Tennessee Waters (previously known as Tier 2) and Outstanding Waters (Tier 3). In exceptional waters, degradation cannot be authorized unless (1) there is no reasonable alternative to the proposed activity that would degrade and (2) the activity is in the economic or social interest of the public. In Outstanding National Resource Waters, no new discharges, expansion discharges, or mixing zones will be permitted unless such activity will not result in measurable degradation of the water quality.

The Division of Water Pollution Control has compiled the list of waters that follows based on the characteristics of Exceptional Tennessee Waters : National Resource Waters set forth in the regulation by the Tennessee Water Quality Control Board. In general, these are waterbodies with good water quality, ecological values, valuable recreational uses, and outstanding scenery. Wherever possible, the Division has utilized objective measures to apply the criteria as the basis for each listing is provided.

The following factors should be considered:

1. The list will be updated regularly and does not include waterbodies that the division has not evaluated. The fact that a waterbody does not appear on the list does not preclude the possibility that it may be high quality.
2. In some cases, only a portion of a waterbody is considered high quality. The extent of each listing is provided.
3. This compilation of waterbodies is based on the most recent information obtained by the division and may be reconsidered upon submittal of new information.
4. The list is organized in hydrological order. Reviewers should be aware that many waterbodies share the same name. It is our goal to develop a system to locate these high quality waters.

It is our hope that this compilation of high quality waterbodies will provide a valuable planning tool for both the public and the regulated community. For more information on the antidegradation policy can be directed to Greg Denton, (615) 532-0699, or gregory.denton@tn.gov

Search Guidance

Exceptional TN Streams

Go
Actions
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-
?
County = 'Bedford' ☒ X

1 - 13 of 13

HUC	Watershed Name	Waterbody	County	Description	Basis for Inclusion	From Lat	To Lat	From Long	To Long	Includ
06040002	Duck-Upper	Duck River	Bedford	From RM 221.4 upstream of Hwy 231 to Normandy Dam.	State threatened Coppercheek Darter, Ashy Darter, and Barrens Darter.	35.481	35.465	-86.4826	-86.2468	
06040002	Duck-Upper	Fall Creek	Bedford	From Duck River to headwaters.	State threatened Striated Darter.	35.5418	35.6031	-86.5424	-86.453	
06040002	Duck-Upper	Flat Creek	Bedford	From Duck River to headwaters.	State threatened Coppercheek Darter, Striated Darter and Ashy Darter.	35.4708	35.3918	-86.487	-86.4073	
06040002	Duck-Upper	Garrison Fork Creek	Bedford	From Duck River to confluence of Straight Creek.	State threatened Ashy Darter and Striated Darter.	35.4788	35.5527	-86.3325	-86.286	
06040002	Duck-Upper	Hurricane Creek	Bedford	From Fall Creek to headwaters.	State threatened Striated Darter.	35.5646	35.5755	-86.5078	-86.3862	
06040002	Duck-Upper	Kelly Creek	Bedford	From Wartrace Creek to headwaters.	State threatened Striated Darter.	35.5912	35.6323	-86.3384	-86.3072	

06040002	Duck-Upper	North Fork Creek	Bedford	From Duck River to Alexander Creek.	State threatened Striated Darter.	35.5834	35.5832	-86.6421	-86.5417	
06040002	Duck-Upper	Sugar Creek	Bedford	From Duck River to headwaters.	State threatened Coppercheek Darter.	35.4801	35.3849	-86.5103	-86.4863	
06040002	Duck-Upper	Wartrace Creek	Bedford	From Garrison Fork Creek to headwaters.	State threatened Striated Darter.	35.5073	35.6536	-86.334	-86.3076	
06040002	Duck-Upper	Stokes Branch	Bedford	From Garrison Fork to Pennell Branch.	State threatened Striated Darter.	35.5072	35.519	-86.3346	-86.3546	
06040002	Duck-Upper	Pennell Branch	Bedford	From Stokes Branch to headwaters.	State threatened Striated Darter.	35.519	35.5451	-86.3551	-86.3879	
06040002	Duck-Upper	Duck River Unnamed Tributary	Bedford	From Duck River near river mile 194 to origin.	State threatened Yellow Sunnybell.	35.5816	35.5586	-86.6281	-86.6246	NOV-1
06040002	Duck-Upper	Weakley Creek Unnamed Tributary	Bedford	From River Mile 0.9 of Weakley Creek to origin.	State threatened Yellow Sunnybell.	35.6035	35.6077	-86.5805	-86.586	NOV-1

1 - 13 of 13

Abbreviations

NF = National Forest
 NM = National Monument
 NMP = National Military Park
 NP = National Park
 NRA = National Recreation Area
 NRRRA = National River and Recreation Area
 NW = National Wilderness
 NWR = National Wildlife Refuge
 ONRW = Outstanding National Resource Water
 RM = River Mile
 SAA = State Archaeological Area
 SHP = State Historic Park
 SNA = State National Area
 SP = State Park
 WA = Wilderness Area
 WMA = Wildlife Management Area
 WR = Wildlife Refuge



If you have any questions or comments, Email ask.tdec@tn.gov or call at (888) 891-TDEC (8332).





Mark A. Clanton, Director
Email: mark.clanton@shelbyvilletn.org

City of Shelbyville

Public Works Department

714 Industrial Parkway Shelbyville, TN 37160
Phone 931.684.2644 Fax 931.684.8993

Water Quality Priorities[Section 3.1] B.

Duck River TN 06040002020-100 E.Coli

Duck River TN 06040002027-1000 E .Coli/Siltation

Hurricane Creek 06040002038-0300 E.Coli/Siltation

Bomar Creek 06040002027-0200 Nutrients/Low D.O.



Mark A. Clanton, Director
Email: mark.clanton@shelbyvilletn.org

City of Shelbyville

Public Works Department

714 Industrial Parkway Shelbyville, TN 37160
Phone 931.684.2644 Fax 931.684.8993

MS4 Discharge To E.T.W Section 2 .D.

Duck River TN 06040002020-100 E.Coli

Duck River TN 06040002027-1000 E .Coli/Siltation

The following is a list of the Federally Listed Species
for the upper Duck river Watershed..



Department of Environment & Conservation

Robert McCreary, Commissioner

GOVERNOR
Bill Haslam

Mark E. Holt, Secretary

Rare Species by Watershed Rare Species by County Rare Species by Quadrangle Stormwater Programs

- Help
- Key to Status and Ranks
- Rare Species by County

Go Rows 15 Actions

Row text contains 'bedford' ☒

1 - 15 of 40 >

County	Type	Scientific Name	Common Name	Global Rank	Fed. Status	St. Status	Habitat	State Rank
Bedford	Vertebrate Animal	<u>Cryptobranchus alleganiensis</u>	Hellbender	G3G4	No Status	D	Rocky, clear creeks and rivers with large shelter rocks.	S3
Bedford	Vertebrate Animal	<u>Gyrinophilus palleucus</u>	Tennessee Cave Salamander	G2G3	--	T	Aquatic cave obligate; cave streams & limestone pools; Central Basin, Eastern Highland Rim, & Cumberland Plateau.	S2
Bedford	Vertebrate Animal	<u>Ichthyomyzon gagei</u>	Southern Brook Lamprey	G5	--	D	Gravel and sand riffles and runs of small rivers and creeks; Conasauga & lower Tennessee river watersheds.	S1
Bedford	Vertebrate Animal	<u>Hemibrama bairdii</u>	Flame Chub	G3	--	D	Springs and spring-fed streams with lush aquatic vegetation; Tennessee & middle Cumberland river watersheds.	S3
Bedford	Vertebrate Animal	<u>Notropis rupestris</u>	Bedrock Shiner	G2	--	D	Bedrock pools of some low-gradient streams of the Nashville Basin.	S2
Bedford	Vertebrate Animal	<u>Noturus fasciatus</u>	Saddled Madtom	G2	--	T	Rocky riffles, runs, and flowing pools of clear creeks & small rivers; Duck River system and nearby tributaries of the Tennessee River.	S2
Bedford	Vertebrate Animal	<u>Fundulus julisia</u>	Barrens Topminnow	G1	--	E	Springs, spring runs, and first- and second-order headwaters and creeks in the Barrens of Cannon, Coffee, & Warren counties.	S1
Bedford	Vertebrate Animal	<u>Etheostoma caeruleum</u>	Coppercheek Darter	G2G3	--	T	Primarily in deep riffles, runs, and flowing pools; Duck and Buffalo River watersheds.	S2S3
Bedford	Vertebrate Animal	<u>Etheostoma cinereum</u>	Ashy Darter	G2G3	--	T	Small to medium upland rivers with bedrock or gravel substrate and boulders.	S2S3
Bedford	Vertebrate Animal	<u>Etheostoma luteocinctum</u>	Redband Darter	G4	--	D	Limestone streams; Nashville Basin & portions of Highland Rim.	S4
Bedford	Vertebrate Animal	<u>Etheostoma striatulum</u>	Striated Darter	G1	--	T	Bedrock pools of headwaters and creeks with large slabrock cover; upper Duck River watershed.	S1
Bedford	Vertebrate Animal	<u>Etheostoma denunciorum</u>	Golden Darter	G2	--	Rare, Not State Listed	Medium to large rivers in shallow riffle areas of pea gravel; Tennessee River system.	S2
Bedford	Vertebrate Animal	<u>Percina macrocephala</u>	Longhead Darter	G3	--	T	Clear, larger upland creeks and small-med rivers, usually in rocky flowing pools up/dnst rubble riffles; Tenn & Cumb river watersheds.	S2
Bedford	Vertebrate Animal	<u>Percina phoxocéphala</u>	Slenderhead Darter	G5	--	D	Small-large rivers with moderate gradient in shoal areas with moderate-swift currents; portions of Tenn & Cumb river watersheds.	S3
Bedford	Vertebrate Animal	<u>Myotis grisescens</u>	Gray Myotis	G3	LE	E	Cave obligate year-round; frequents forested areas; migratory.	S2

1 - 15 of 40 >

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< 16 - 30 of 40 >

County	Type	Scientific Name	Common Name	Global Rank	Fed. Status	St. Status	Habitat	State Rank
Bedford	Vertebrate Animal	<u>Myotis sodalis</u>	Indiana Myotis	G2	LE	E	Hibernates in caves; spring/summer maternity roosts are normally under the bark of standing trees.	S1
Bedford	Vertebrate Animal	<u>Neotoma magister</u>	Allegheny Woodrat	G3G4	--	D	Outcrops, cliffs, talus slopes, crevices, sinkholes, caves & karst.	S3
Bedford	Invertebrate Animal	<u>Gomphus sandrius</u>	Tennessee Clubtail	G1	--	Rare, Not State Listed	Slow streams with bare bedrock shores; Central Basin; upper Duck River and middle Cumberland River watersheds.	S1
Bedford	Invertebrate Animal	<u>Lexingtonia dolabelloides</u>	Slabside Pearlymussel	G2	C	Rare, Not State Listed	Lg creeks to mod sized rivers, in riffles/shoals of sand, fine gravel, and cobble substrates with mod current; Tennessee R watershed.	S2
Bedford	Invertebrate Animal	<u>Obovaria subrotunda</u>	Round Hickorynut	G4	--	Rare, Not State Listed	Medium-large rivers in sand and gravel subst with moderate flow; TN & Cumb rivers; also Red River in Robertson Co., W Highland Rim.	S2S3
Bedford	Invertebrate Animal	<u>Pychobranchus subintum</u>	Fluted Kidneyshell	G2	C	Rare, Not State Listed	Small-medium rivers in swift current or riffles, in sand, gravel, and cobble substrates; Tennessee & Cumberland river systems.	S2
Bedford	Invertebrate Animal	<u>Quadrula cylindrica cylindrica</u>	Rabbitsfoot	G3G4T3	--	Rare, Not State Listed	Large rivers in sand and gravel; Tennessee & Cumberland systems; big river form of Q. cylindrica.	S3
Bedford	Invertebrate Animal	<u>Lithasia duttoniana</u>	Helmet Rocksnail	G2Q	--	Rare, Not State Listed	Rocky substrates in riffle systems; bedrock in flowing water below main section of riffles; Duck River (TN River system).	S2
Bedford	Invertebrate Animal	<u>Lithasia geniculata fuliginosa</u>	Geniculate River Snail	G3T3Q	--	Rare, Not State Listed	Medium-sized river form of L. geniculata; portions of lower Cumberland and lower Tennessee river systems; Duck & Buffalo rivers.	S2
Bedford	Vascular Plant	<u>Amsonia tabernaemontana var. gatlingeri</u>	Limestone Blue Star	G5T3Q	--	S	Glades, Barrens, And Rocky River Bars	S3
Bedford	Vascular Plant	<u>Amodiosum plantaginum</u>	Fen Indian-plantain	G4G5	--	T	Moist Prairies And Marshes	S2
Bedford	Vascular Plant	<u>Leavenworthia exigua var. exigua</u>	Glade-cress	G4T3	--	S	Glades	S3S4
Bedford	Vascular Plant	<u>Pavsonia densifolia</u>	Duck River Bladderpod	G3	--	T	Cultivated Fields	S3
Bedford	Vascular Plant	<u>Astragalus tennesseensis</u>	Tennessee Milk-vetch	G3	--	S	Glades	S3
Bedford	Vascular Plant	<u>Dalea foliosa</u>	Leafy Prairie-clover	G2G3	LE	E	Rocky Washes In Glades	S2S3

< 16 - 30 of 40 >



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Go Rows **15** Actions

☐ Row text contains 'bedford' ☒ ☐

< 31 - 40 of 40

County	Type	Scientific Name	Common Name	Global Rank	Fed. Status	St. Status	Habitat	State Rank
Bedford	Vascular Plant	<u>Trifolium calcaricum</u>	Running Glade Clover	G1	--	E	Glades, Cedar Woods, And Thickets	S1
Bedford	Vascular Plant	<u>Oenothera macrocarpa</u>	Missouri Primrose	G5	--	T	Limestone Cedar Glades	S2
Bedford	Vascular Plant	<u>Polygala boykinii</u>	Boykin's Milkwort	G4	--	T	Glades	S2
Bedford	Vascular Plant	<u>Phemeranthus calcaricus</u>	Limestone Fama-flower	G3	--	S	Glades	S3
Bedford	Vascular Plant	<u>Anemone caroliniana</u>	Carolina Anemone	G5	--	E	Glades And Cedar Woodlands	S1S2
Bedford	Vascular Plant	<u>Rosa virginiana</u>	Virginia Rose	G5	--	S	Limestone Barrens And Swamps	SH
Bedford	Vascular Plant	<u>Schoenolirion croceum</u>	Yellow Sunnyside	G4	--	T	Wet Areas In Glades	S3
Bedford	International Vegetation Classification	<u>Distichlis spicata - Megacarpaea - Mithras petiolata Herbaceous Vegetation</u>	Limestone Glade Streamside Meadow	G2?	--	Rare, Not State Listed	No Data	S2?
Bedford	International Vegetation Classification	<u>Eleocharis compressa - Schoenolirion croceum - Carex crawei - Allium cernuum Herbaceous Vegetation</u>	Central Basin Limestone Seep Glade	G2?	--	Rare, Not State Listed	No Data	SNR
Bedford	International Terrestrial Ecological System Classification	<u>Nashville Basin Limestone Glade</u>	Nashville Basin Limestone Glade, Barrens, and Woodland	GNR	--	Rare, Not State Listed	No Data	SNR

< 31 - 40 of 40



If you have any questions or comments, Email ask.tdec@tn.gov or call at (888) 891-TDEC (8332).

